

# Welcome to GSynth

GSynth is a monophonic VSTi with three sine oscillators. It also features an LFO for controlling the output level.

## Hints

- Each oscillator has its own "Attack" and "Portamento" setting, allowing interesting, evolving sounds to be created.
- The best way to get a feeling for GSynth is by using the "Random" button and then tweaking the parameters.
- The "Random" button can create extremely inharmonic sounding settings because of the "Detune" parameters. Holding down "Shift" while clicking on the "Random" button creates better-behaved presets.

## Interface



Each knob is laid out the same way for consistent and easy reference. Above each one, its function is labelled. Below each one is a numerical readout of the value assigned. There are also two buttons to aid configuration, "Random" and "AutoLevel".

## Oscillator Controls

Many parameters are repeated for each oscillator, e.g. "Cent", "Attk", etc. Each of these parameters will be described only once below.

**Partial:** This controls the frequency of the oscillator. The first oscillator is fixed to play at the frequency implied by the depressed MIDI key. The remaining two oscillators play at a

multiple of that frequency, set by this parameter.

**Detune:** This allows each oscillator to be detuned by up to a semitone (100 cents) sharp or flat. **Attk** and **Rel:** Defines the envelope of the oscillator, i.e. the time taken to reach full volume after a key is pressed and the time taken to reach silence after the key is released.

**Porta:** Controls the portamento of the oscillator, i.e. the time taken for the oscillator to "slide" from one note to the next.

**Level:** The level of the oscillator.

## LFO Controls

The LFO is used to modulate the overall output level. It is synchronised to the start of each bar. Three parameters describe the LFO shape, frequency and the modulation depth.

**LFOWave:** The wave-shape of the LFO, e.g. Sine.

**LFOFreq:** The frequency of the LFO in cycles per bar.

**LFODepth:** How much the LFO will affect the output level.

## Global Controls

The remaining parameters affect the overall sound.

**PtchBend:** The maximum pitch-bend caused by the pitch-bend wheel.

**PortaRst:** After this time has passed the portamento is reset. Once the portamento is reset, the next note played will simply play at the implied frequency, without "sliding" from the previously played note.

**MainLvl:** The output level.

**Random:** Pressing the random button will randomize all of the parameters apart from "PtchBend", "PortaRst", and "MainLvl". After randomization, the "MainLvl" parameter is set automatically, as if the "AutoLevel" button were pressed.

**AutoLevel:** Sets the "MainLvl" parameter so that the peak output level does not exceed -3 dB.

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